

TITLE:

A web application for learning English vocabulary

AUTHOR:

Matouš Trča

DEPARTMENT:

IT & Technical Education Department

SUPERVISOR:

PhDr. Josef Procházka, Ph.D.

ABSTRACT:

The aim of this bachelor thesis is to create an operational prototype of a web application, which would help students to practice English vocabulary. The algorithm of the application will be based on Spaced Repetition technique, which incorporates increasing intervals of time between subsequent reviews of previously learned flashcards. The application will allow users to register, to create a new collection of flashcards, and it will optionally notify them by e-mail about their daily batch. The creation of flashcards will be semi-automated – users input the word, which they want to remember, and the system will generate flashcards using freely available dictionary APIs.

The first, theoretical part focuses on general aspects of learning, memory and forgetting. It also compares the existing applications for learning vocabulary and their algorithms. The practical part of this bachelor thesis is concerned with the development of the application, from the design to the implementation and final user testing.

KEYWORDS:

learning, web application, English vocabulary, spaced repetition, flashcards